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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/719,683	11/24/2003	Bob Streefkerk	081468-0306882	1907	
PILLSBURY WINTHROP SHAW PITTMAN, LLP Eric S. Cherry - Docketing Supervisor P.O. BOX 10500 MCLEAN, VA 22102			EXAMINER		
			RUTLEDGE, DELLA J		
			ART UNIT	PAPER NUMBER	
			2851		
			MAIL DATE	DELIVERY MODE	
			10/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) STREEFKERK ET AL.	,		•	1H
Examiner D. Rutledge Art Unit D. DAY: Which Externation on the Unit Pate Set Set Set Set Set Set Set Set Set S			Application No.	Applicant(s)
D. Rutlodge 2851 — The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 37 CRT 11360, in no event, however, may a reply be timely filed after SIX (5) MONTHS from the making date of this communication. Failus to reply within the set or extended period for reply will. by station, some the application (5 st U.S. C. § 133). Any reply received by the Office liter than these months after the making date of this communication. Failus to reply within the set or extended period for revival. By station, some the application is exceeded period for the control and will apply and will expire SIX (6) MONTHS from the making date of this communication. Provided the provided any reply received by the Office liter than these months after the making date of this communication, even if timely filed, may reduce any sense place true and provided to the provided provided to the making date of this communication, even if timely filed, may reduce any sense place to the open sense of the communication of the provided provided to the making date of this communication, even if timely filed, may reduce any sense place to sense and provided to the communication of the making of the communication of the provided provided to the making date of this communication. 1) Responsible to communication is in condition for allowance except for formal matters, prosecution as to the merits closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 13-6-46 and 48-53 is/are pending in the application. 4) Claim(s) 13-36-46 and 48-53 is/are rejected. 7) Claim(s) 13-36-46 and 48-53 is/are rejected. 7) Claim(s) 13-36-46 and 48-53 is/are rejected. 10) The drawing(s) filed on 13-45 and 48-53 is/are rejected. 11)	Office Action Summary		10/719,683	STREEFKERK ET AL.
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the proteins of 37 CFR 1.35(s). In or event, however, may a reply be simely field after SX (8) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the practicular of the state of the some proteins of the proteins of the state of the some proteins of the state of the some proteins of the state of the some proteins. Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any earned plates them adjustment. See 37 CFR 1.70(l): Status 1)② Responsive to communication(s) filled on 13 July 2007. 2a)□ This action is FINAL. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)② Claim(s) 1-3.6-46 and 48-53 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6)② Claim(s) 1-3.6-46,48-53 is/are pending in the application. 4a) Claim(s) 1-3.6-46,48-53 is/are rejected. 7)□ Claim(s) is/are allowed. 6)② Claim(s) 1-3.6-46,48-53 is/are rejected. 7)□ Claim(s) is/are allowed. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121. 11)□ The odrawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121. 11)□ The odrawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. 12)□			Examiner	Art Unit
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date		• •		•
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:	2) Notic 3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	Paper No 5)	o(s)/Mail Date Informal Patent Application

Art Unit: 2851

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claims 20 23, 26, 27, 30, 34 37, 42 46, 48, 51- 52 are rejected under 35 U.S.C.
 103(a) as being unpatentable over Schuster (US Pat. No. 7,092,069) in view of
 Newberry et al. (US Pat. No. 4200794).

Claims 20 - 23, 26, 42 - 46, 48: Schuster has the basic immersion type lithographic exposure apparatus having an immersion lens 14. The reference does not disclose how the lens is mounted to the support, but the secondary reference (does not have a lithographic apparatus) discloses one known method of affixing a silicon lens to a glass

Art Unit: 2851

support by using a thermal direct bonding. Thus the lens used in the Schuster apparatus may having used such an affixing method.

Claims 27: the person of ordinary skill in the art would know the heating temperature to use to provide the proper bonding

Claims 26, 28, 44, 48, 49: with heat, clean surface; using a clean surface is recognized in a bonding environment

Claims 30, 34, 35, 40, 45, 51, 52: material composition of element and support glass, fused silica, etc. are known compositions used in the art and would be among the choices selected by one skilled in the art in producing the expose apparatus

4. Claims 1 - 3, 7, 16 - 19, 38 - 41, 46, 51 - 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schuster (US Pat. No. 7,092,069) alone or in view of LeFlohic (US Pub. No. 2002/0186937).

Claims 1 - 3, 7, 19, 38, 46, 53: The primary reference has the basic lithographic apparatus, but does not disclose how the immersion lens 14 is mounted to the support. The secondary reference, does have a lithographic apparatus, but in paragraph 0034, discloses that a lens may affixed to a glass support by using glue. It is already known to use a particular composition or material to affix a lens to a support, one of ordinary skill in the art would be motivated to use the known method to mount the optical elements of the Schuster et al. apparatus.

Claim 7: the joint may be made without heating

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Claims 16 - 18, 39 - 41, 51, 52: the composition of the lens and the support may comprise the materials claimed since that are known materials in the art for use in a projection system

Claim 38: joint can be made without heating

5. Claims 6, 8 - 15, 24 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schuster (US Pat. No. 7,092,069) alone or in view of LeFlohic (US Pub. No. 2002/0186937).

Claims 6, 8, 9, 12, 24, 25: direct bonding is a known method of affixing two objects; this method may be used after the initial gluing of the two objects to further secure the affixing or bonding of the objects

Claims 10, 28: using clean surfaces improves the affixing or bonding process

Claims 11, 13, 29, 31: using glass solder and heat is a known affixing and bonding

process and may be used after the initial gluing of the objects to further secure the

affixing process

Claims 26, 27: using heat to further improve the affixing or bonding of the two objects is an method that one of ordinary skill in the art would have used with the Schuster et al. apparatus to improve the affixing or bonding process

Response Data

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Rutledge whose telephone number is (571) 272-2127. The examiner can normally be reached on Mon - Thurs, 6:00 AM - 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on (571) 272-2399. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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D. Rutledge 0
Primary Examiner
Art Unit 2851

dr 11/07